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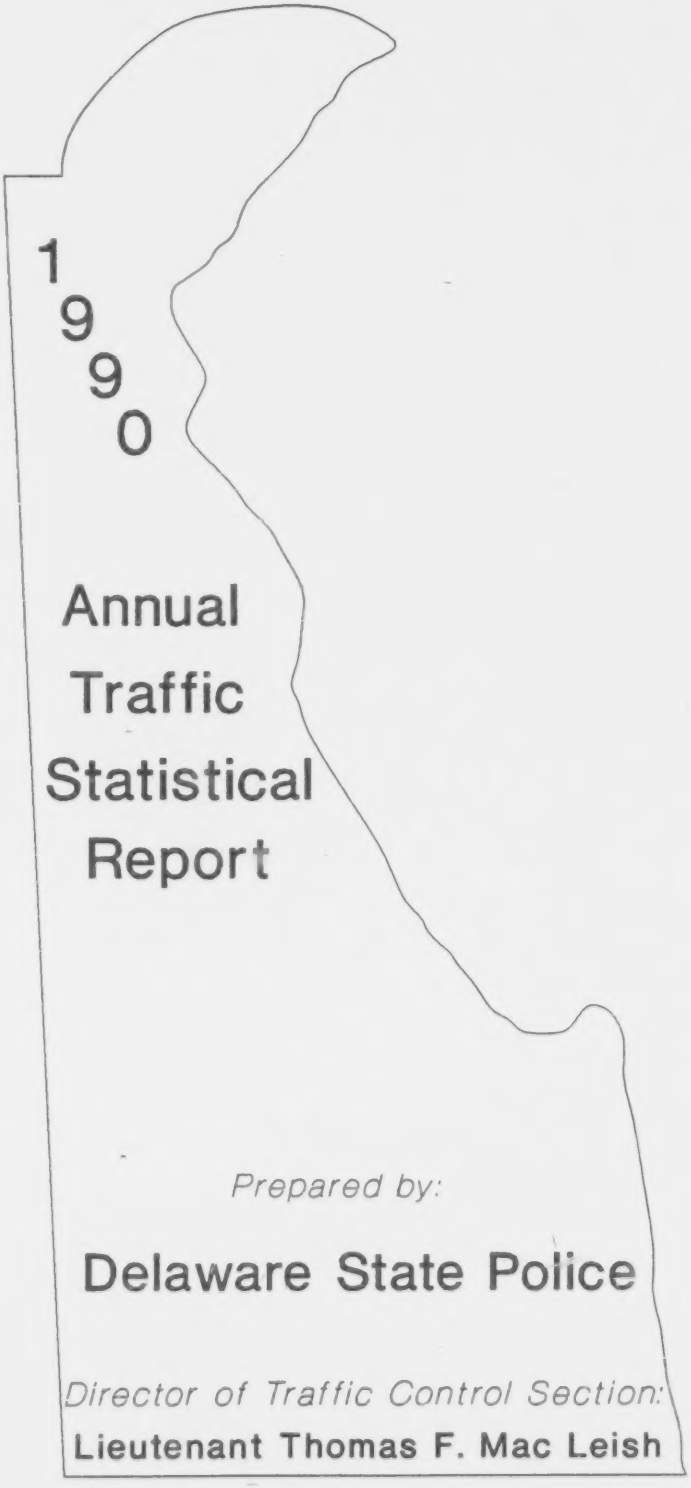

1990 Annual Traffic Statistical Report

Prepared by:

Delaware State Police

Director of Traffic Control Section:

Lieutenant Thomas F. Mac Leish

INTRODUCTION

The Traffic Control Section of the Delaware State Police is the repository for all Delaware traffic crash data. This includes all crash reports regardless of the geographical areas in which they occur or the police agency conducting the investigation. These crash reports are stored with us for quick retrieval for civil, criminal, and statistical purposes.

This is an annual compilation - in report form - of the 1990 crash statistics. Overall traffic crashes in Delaware were down 8% over tha previous year. However, fatal crashes increased by 14%. A major factor in these fatal crashes - as in past years - was alcohol. In 1990, over half (54%) of the 126 fatal crashes were alcohol related while alcohol was involved in only 9% of all other crashes.

Looking ahead to 1991, if the accident rate remains the same as in the first three months of this year, there is a potential for 15,000 total crashes, resulting in 100 deaths and 7,000 injuries on Delaware roads.

More detailed information on the 1990 fatal crashes can be obtained by contacting Mrs. Kathy English, FARS Analyst, by phone at (302) 739-5933/4 for the 1990 "Delaware FARS Fatal Accident Facts" booklet. Note: FARS and State data may vary due to a difference in the fatal accident death definition. This is explained further in the FARS booklet.

Copies of this document, the "1990 Annual Traffic Statistical Report", are available to the public by writing Tammy Mitchell, Statistician, Planning Section, Delaware State Police, P.O. Box 430, Dover, Delaware 19903 or by phone at (302) 739-5969.

Tammy J. Mitchell
Statistician
Planning Section
Delaware State Police

1990
DELAWARE

THERE WERE
484,803 LICENSED DRIVERS,

571,774 REGISTERED
MOTOR VEHICLES,

AND 6,548,000,000
VEHICLE MILES DRIVEN.

THERE WERE
17,850 TRAFFIC CRASHES

RESULTING IN
143 PEOPLE KILLED &
8,693 PEOPLE INJURED

AND AN ECONOMIC LOSS OF
$158 MILLION DOLLARS.

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DELAWARE
TRAFFIC CRASH FACTS

- There were 17,850 reported traffic crashes of which 126 were fatal; 5441 were personal injury and 12,283 were property damage crashes.
- A traffic crash was reported every 29 minutes.
- In 126 fatal crashes, 143 persons were killed.
- Twenty percent (20%) of the persons killed in Delaware in 1990 were minors (less than 21 years old).
- One person was killed every 61 hours as a result of traffic crashes.
- There were 8,693 persons injured in Delaware crashes.
- One person was injured every 60 minutes in traffic crashes.
- For each person killed, there were 61 injured.
- One out of every 15 licensed drivers in Delaware was a driver in a traffic crash.
- Alcohol was involved in 54% of the fatal crashes.
- Of all the drivers killed in fatal crashes, 38% of them were drinking.
- The number of pedestrians killed in traffic crashes in 1990 was 22, up from 19 in 1989.
- For each pedestrian killed, there were 11 injured.
- The number of bicyclists killed in traffic crashes in 1990 was 2, the same as in 1989.
- For each bicyclist killed, there were 74 injured.
- Children under 15 years of age accounted for 43% of the bicyclist's injuries.
- A total of 10 motorcyclists were killed in traffic crashes in 1990, compared to 4 in 1989.
- Of the 10 motorcyclists killed, 4 were wearing a helmet.
- Of the 109 occupants killed in traffic crashes in 1990, 84 were not using occupant restraints.
- Of the 947 occupants killed in traffic crashes in the last ten years, 88% of them were <u>not</u> using occupant restraints.

1990
STATEWIDE FATAL CRASH SUMMARY

1. Fatal Crashes and Fatalities

	CRASHES	DEATHS
New Castle	67	78
Kent	29	33
Sussex	30	32
TOTAL:	**126**	**143**

2. Alcohol Related Fatal Crashes and Fatalities

	CRASHES	DEATHS
New Castle	38	46
Kent	15	18
Sussex	15	17
TOTAL:	**68**	**81**

3. Status of Victims

A. CAR OCCUPANTS		109
Operators	73	
Passengers	36	
B. MOTORCYCLISTS		10
Operators	9	
Passengers	1	
C. PEDESTRIANS		22
D. BICYCLISTS		2
TOTAL DEATHS:		**143**

WATCH OUT!!

Dangerous Times To be on the Road in Delaware

Most Dangerous Day:

SATURDAY

75% of the Fatal Crashes *were ALCOHOL RELATED!*

Most Dangerous Time:

Midnight - 4 am

83% of the Fatal Crashes *were ALCOHOL RELATED!*

Worst Day and Time to be on the Road:

From Saturday night at 4 pm until Sunday morning at 8 am.

77% of the Fatal Crashes *were ALCOHOL RELATED!*

(Based on 1990 Data)

TRAFFIC STATISTICS
IN BRIEF

	1990	1989	% Change
Registered Vehicles	571,774	565,719	1%
Licensed Drivers	484,803	495,555	2%
Vehicle Miles Traveled (in millions)	6,548	6,421	2%
Population	666,168	670,350	1%
Fatal Crashes	126	111	14%
Personal Injury Crashes	5,441	5,867	7%
Property Damage Crashes	12,283	13,432	9%
Total Crashes	17,850	19,410	8%
Persons Killed	143	119	20%
Persons Injured	8,693	9,246	6%
Death Rate per 100 million Vehicle Miles Driven	2.18	1.85	18%
Death Rate per 10,000 Registered Vehicles	2.50	2.10	19%
Death Rate per 100,000 Population	21.47	17.75	21%

POPULATION, LICENSED DRIVERS, REGISTERED MOTOR VEHICLES, and MOTOR VEHICLE MILEAGE

1971 - 1990

YEAR	POPULATION	LICENSED DRIVERS	REGISTERED MOTOR VEHICLES	MOTOR VEHICLE MILEAGE **
1971	559,000	343,180	339,265	3,216
1972	571,000	353,147	345,034	3,826
1973	576,000	376,495	359,882	3,714
1974	577,000	376,453	377,569	3,697
1975	579,000	379,386	386,551	3,923
1976	582,086	386,872	390,651	3,850
1977	582,086	390,316	406,401	4,038
1978	581,700	409,419	419,126	4,232
1979	582,600	415,739	429,877	4,093
1980	595,225	425,314	435,009	4,221
1981	594,338	437,813	443,511	4,459
1982	594,317	443,960	454,585	4,591
1983	599,866	443,013	467,374	4,886
1984	600,000	451,791	502,025	5,123
1985	611,011	459,875	506,328	5,365
1986	612,603	468,234	521,401	5,761
1987	632,754	475,947	542,512	6,087
1988	660,200	479,609	555,243	6,386
1989	670,350	495,555	565,719	6,421
1990	666,168	484,803	571,774	6,548

** In Millions

NUMBER & PERCENTAGE DISTRIBUTION

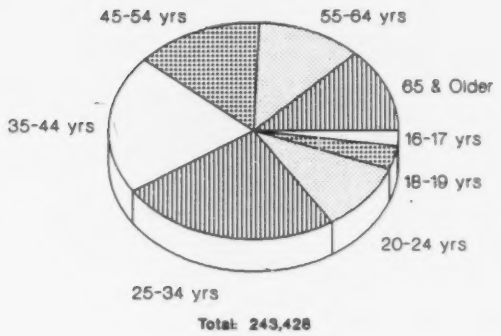
of

LICENSED DRIVERS

1990

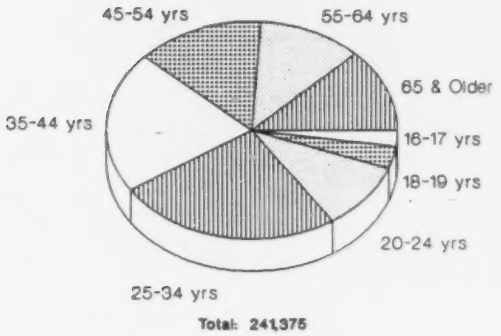
AGE	MALE	FEMALE	TOTAL #	TOTAL %
16 - 17	5,577	5,721	11,298	2%
18 - 19	8,505	8,046	16,551	3%
20 - 24	24,748	24,190	48,938	10%
25 - 34	**60,157**	**60,334**	**120,491**	**25%**
35 - 44	50,568	51,141	101,709	21%
45 - 54	34,633	34,131	68,764	14%
55 - 64	28,543	27,732	56,275	12%
65 & Older	30,697	30,080	60,777	13%
TOTAL:	**243,428**	**241,375**	**484,803**	**100%**

MALES



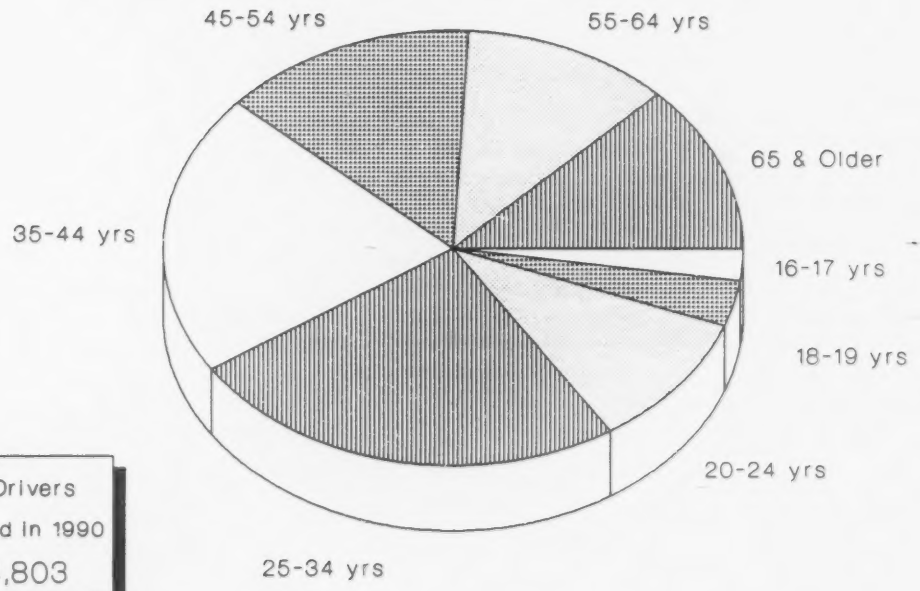
Total: 243,428

FEMALES



Total: 241,375

DISTRIBUTION OF ALL LICENSED DRIVERS



Total Drivers
Licensed In 1990
484,803

VEHICLE DEATH RATES

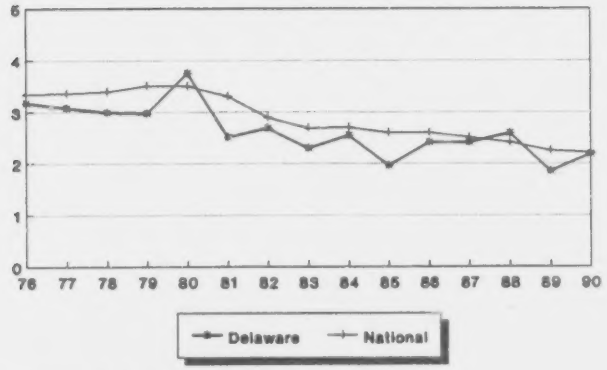
YEAR	MILEAGE DEATH RATE		REGISTRATION DEATH RATE		POPULATION DEATH RATE	
	Delaware	National	Delaware	National	Delaware	National
1976	3.17	3.34	3.12	3.28	20.96	21.90
1977	3.07	3.35	3.08	3.33	21.48	22.50
1978	2.98	3.39	3.01	3.41	21.66	23.60
1979	2.96	3.50	2.81	3.35	20.77	23.80
1980	3.74	3.50	3.63	3.29	26.54	23.40
1981	2.51	3.30	2.53	3.13	18.84	22.40
1982	2.68	2.88	2.71	2.77	20.70	19.70
1983	2.29	2.68	2.40	2.62	18.67	19.00
1984	2.54	2.69	2.59	2.69	21.67	19.60
1985	1.96	2.59	2.07	2.59	17.18	19.20
1986	2.40	2.60	2.65	2.63	22.53	19.90
1987	2.41	2.51	2.71	2.63	23.23	19.80
1988	2.58	2.41	2.97	2.59	24.99	19.90
1989	1.85	2.25	2.10	2.43	17.75	18.90
1990	2.18	2.20	2.50	2.40	21.47	18.70

Mileage Death Rate is the number of deaths per 100 million Vehicle Miles.

Registration Death Rate is the number of deaths per 10,000 Registrations.

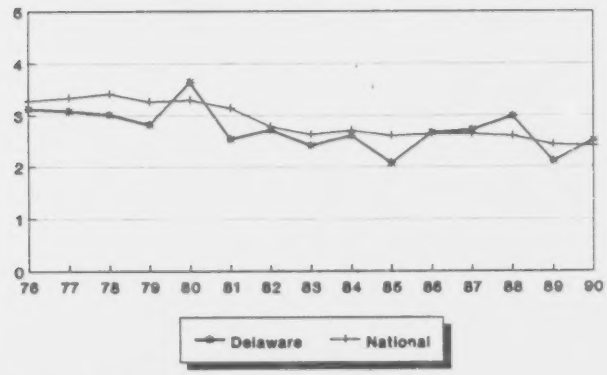
Population Death Rate is the number of deaths per 100,000 Population.

Mileage Death Rate



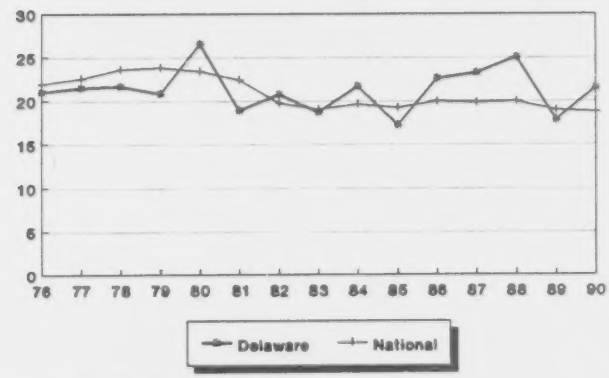
The number of deaths per 100 million Vehicle miles driven.

Registration Death Rate



The number of deaths per 10,000 Registrations.

Population Death Rate



The number of deaths per 100,000 persons residing in Delaware.

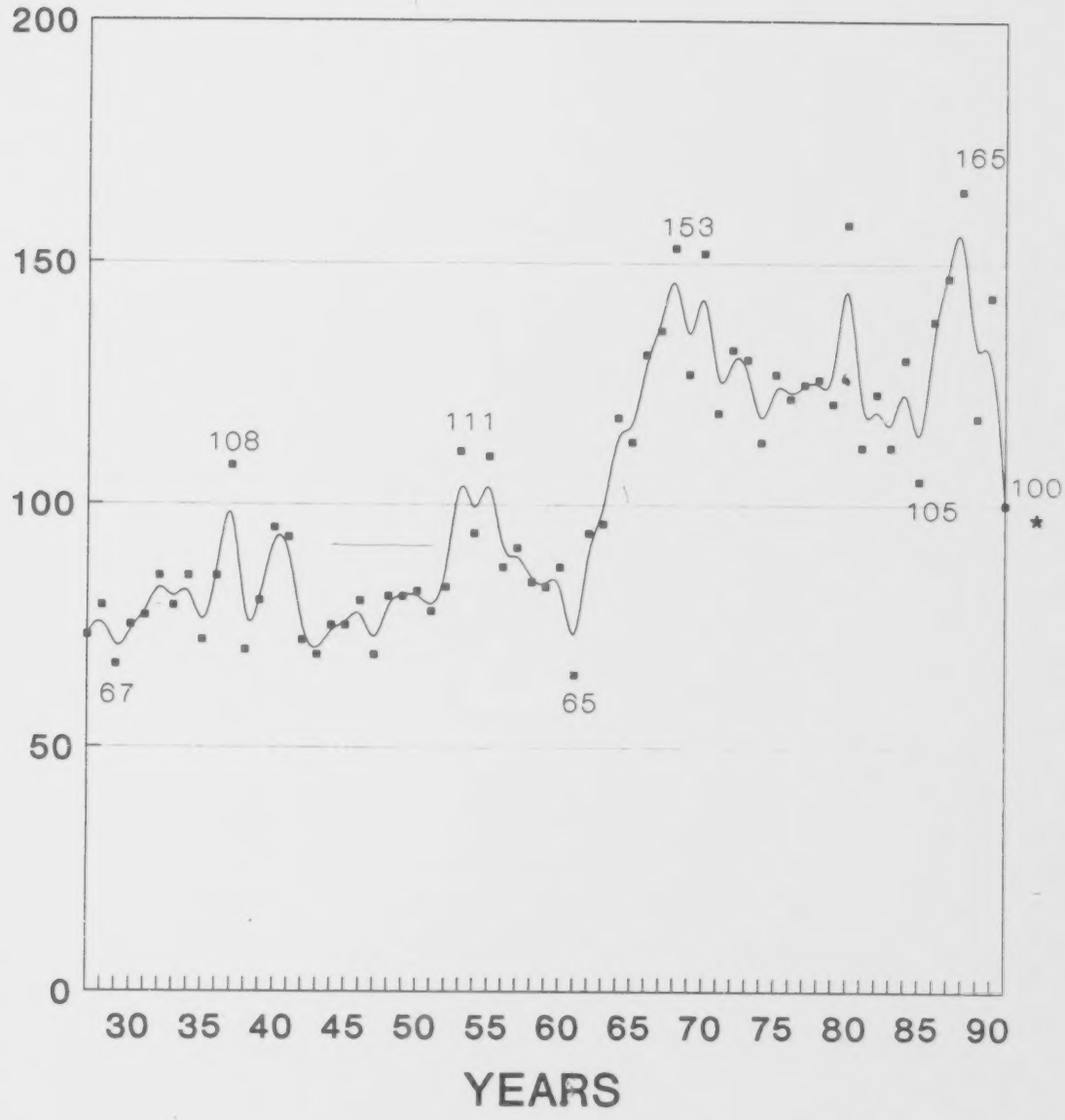
STATEWIDE

CRASH AND INJURY DATA

1975 - 1990

YEAR	ALL CRASHES	FATAL CRASHES	PERSONAL INJURY CRASHES	PROPERTY DAMAGE CRASHES	PERSONS KILLED	PERSONS INJURED
1975	13,373	108	4,550	8,715	127	6,677
1976	13,348	110	4,387	8,851	122	6,447
1977	14,554	108	4,880	9,566	125	7,150
1978	15,402	113	4,564	10,725	126	6,786
1979	16,195	111	4,738	11,346	121	7,046
1980	16,378	139	4,896	11,343	158	7,341
1981	16,269	104	4,726	11,439	112	7,133
1982	16,436	116	4,760	11,560	123	7,228
1983	16,308	100	4,596	11,612	112	6,930
1984	18,309	118	5,221	12,970	130	7,893
1985	19,034	95	5,499	13,440	105	8,506
1986	19,876	121	5,928	13,827	138	9,335
1987	20,339	132	5,813	14,394	147	8,915
1988	19,790	147	5,878	13,765	165	9,245
1989	19,410	111	5,867	13,432	119	9,246
1990	17,850	126	5,441	12,283	143	8,693

Delaware Traffic Deaths
1927-1990

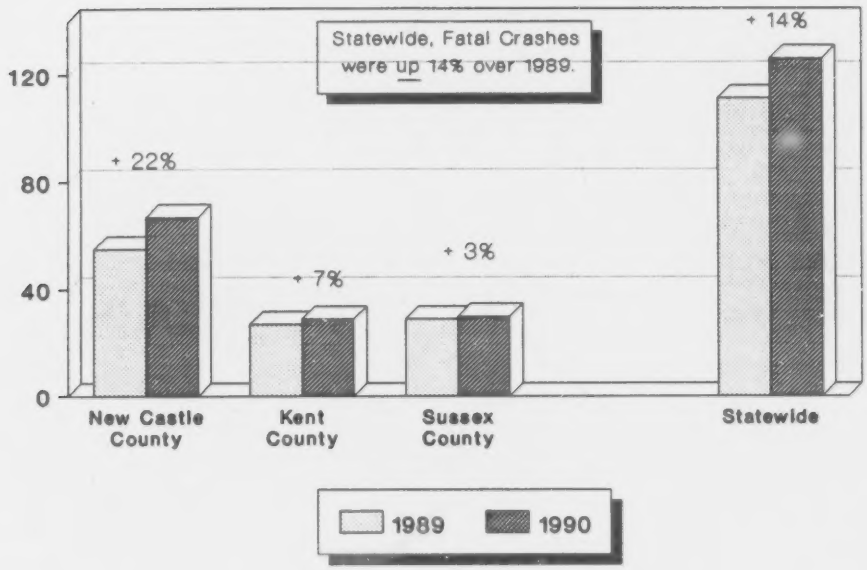


* Projected for 1991

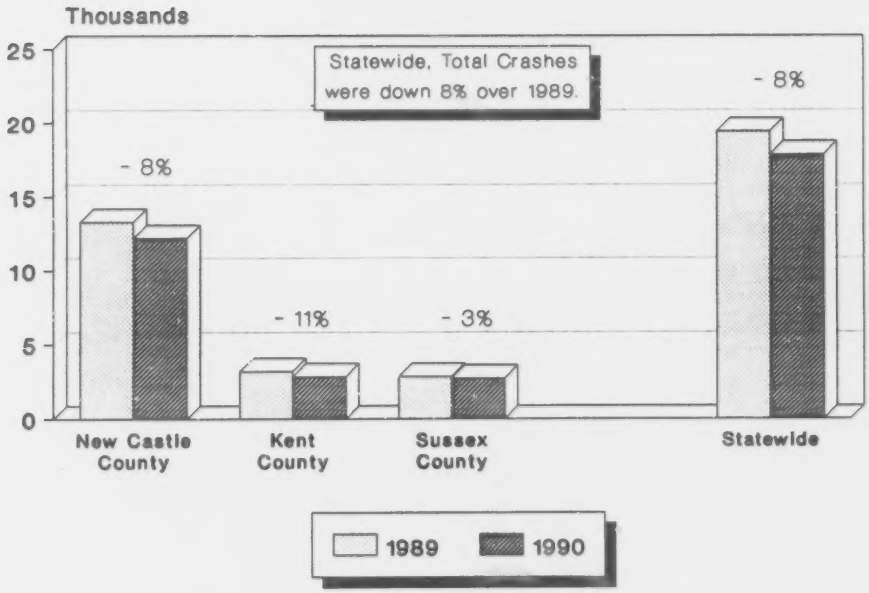
CRASH COMPARISON
by County

	1990	1989	% CHANGE
NEW CASTLE COUNTY			
Fatal Crashes	67	55	↓ 22%
Personal Injury Crashes	3551	3924	↑ 10%
Property Damage Crashes	8622	9356	↑ 8%
Total Crashes	12240	13335	↑ 8%
Fatalities	78	60	↓ 30%
Injuries	5634	6128	↑ 8%
KENT COUNTY			
Fatal Crashes	29	27	↓ 7%
Personal Injury Crashes	949	1017	↑ 7%
Property Damage Crashes	1875	2178	↑ 14%
Total Crashes	2853	3222	↑ 11%
Fatalities	33	29	↓ 14%
Injuries	1508	1599	↑ 6%
SUSSEX COUNTY			
Fatal Crashes	30	29	↓ 3%
Personal Injury Crashes	941	926	↓ 2%
Property Damage Crashes	1786	1898	↑ 6%
Total Crashes	2757	2853	↑ 3%
Fatalities	32	30	↓ 7%
Injuries	1553	1519	↓ 2%
STATEWIDE			
Fatal Crashes	126	111	↓ 14%
Personal Injury Crashes	5441	5867	↑ 7%
Property Damage Crashes	12283	13432	↑ 9%
Total Crashes	17850	19410	↑ 8%
Fatalities	143	119	↓ 20%
Injuries	8693	9246	↑ 6%

FATAL CRASHES



TOTAL CRASHES



MAJOR HOLIDAY PERIODS

CRASH STATISTICS

1986 - 1990

	ALL CRASHES	FATAL CRASHES	PERSONAL INJURY CRASHES	PROPERTY DAMAGE CRASHES	PERSONS KILLED	PERSONS INJURED
NEW YEARS						
'85-'86	109	0	38	71	0	62
'86-'87	240	0	63	177	0	91
'87-'88	157	3	43	111	3	93
'88-'89	136	0	36	100	0	60
'89-'90	160	2	48	110	2	85
MEMORIAL DAY						
1986	145	2	57	86	4	107
1987	102	1	29	72	1	45
1988	169	2	62	105	2	96
1989	200	0	71	129	0	106
1990	154	0	46	108	0	81
FOURTH OF JULY						
1986	201	2	70	129	3	140
1987	163	2	51	110	2	89
1988	174	2	53	119	2	87
1989	235	1	89	145	1	152
1990**	57	1	23	33	3	40
LABOR DAY						
1986	169	0	53	116	0	118
1987	130	2	39	89	2	55
1988	208	0	70	138	0	118
1989	143	0	51	92	0	86
1990	118	2	38	78	3	52
THANKSGIVING						
1986	208	4	53	151	4	141
1987	323	0	90	233	0	157
1988	218	3	59	156	3	95
1989	192	1	52	139	1	91
1990	187	5	61	21	6	103
CHRISTMAS						
1986	157	0	58	99	0	157
1987	217	1	65	151	1	101
1988	194	3	62	129	3	92
1989	143	5	42	96	6	77
1990	242	3	78	161	3	134

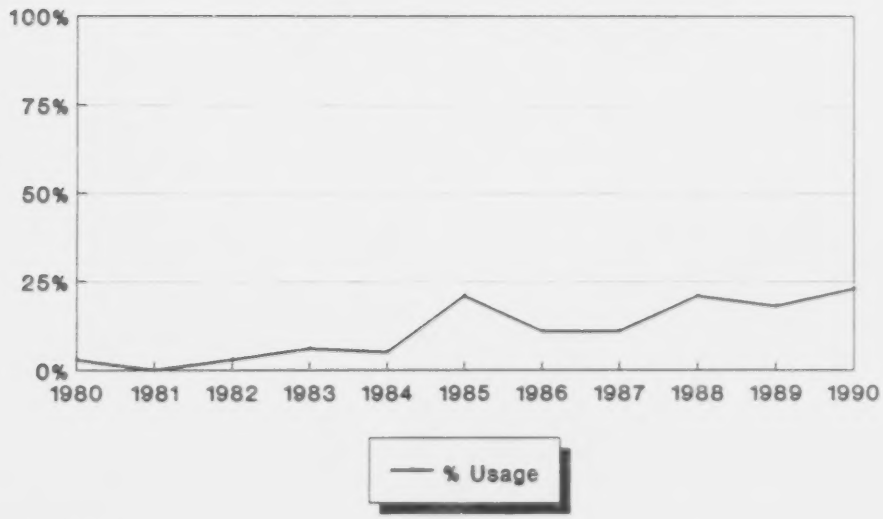
NOTE: The number of crashes and injuries is influenced by the length of the Holiday weekend.

** - This holiday period does **not** include the weekend.

SEAT BELT USAGE
in Occupant Fatalities

YEAR	Total Occupants Killed	Number Wearing Seat belts	% Usage
1990	109	25	23%
1989	94	17	18%
1988	123	26	21%
1987	108	12	11%
1986	111	12	11%
1985	63	13	21%
1984	98	5	5%
1983	82	5	6%
1982	78	2	3%
1981	81	0	0%
1980	120	4	3%

SEAT BELT USAGE
in Occupant Fatalities

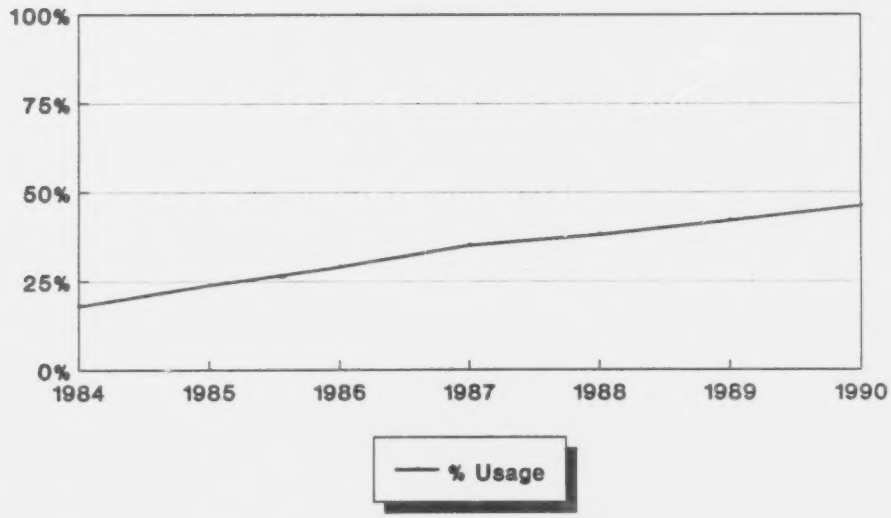


1980-1990

SEAT BELT USAGE
in Occupant Injuries

YEAR	Total Occupants Injured	Number Wearing Seat belts	% Usage
1990	8070	3712	**46%**
1989	8586	3629	**42%**
1988	8547	3244	**38%**
1987	8072	2825	**35%**
1986	8462	2466	**29%**
1985	7696	1858	**24%**
1984	7153	1298	**18%**

SEAT BELT USAGE
in Occupant Injuries



1984-1989

SEAT BELT STUDY

1988 - 1990

Based on those persons who
were injured on Delaware Roads

Seat Belt Usage of Injured Persons

County	*% of persons who used a Seat Belt*		
	88	89	90
New Castle	41%	44%	48%
Kent County	35%	41%	42%
Sussex County	31%	39%	43%
Statewide	38%	42%	46%

Severity of Injury in 1990

→ Of the persons who were not wearing their seat belts, 1 out of 7 (14.0%) received serious injury.

→ Of the persons who were wearing their seat belts, only 1 out of 14 (7.3%) received a serious injury.

The occurrence of a serious injury was reduced by 50% when one was wearing an occupant restraint.

A Serious Injury: An injury that results in death; or one that causes lacerations, broken or distorted limbs; skull, chest or abdominal injuries.

CRASH DATA

The following pages contain information on the number of crashes (fatal crashes, personal injury crashes, and property damage crashes) by:

- Type of Crash
- Contributing Circumstances
- Road Conditions
- Light Conditions
- Type of Vehicle
- Age of Driver
- Sex of Driver
- Residence of Driver
- Day of Week
- Time of Day
- Contributing Police Agencies

TYPE OF CRASH

Type of Crash	All Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes
Overturning	352	3	192	157
Other Non-Collision	74	0	42	32
Pedestrian	269	22	247	0
Motor Vehicle in Transport	**12603**	**60**	**3686**	**8857**
Motor Vehicle on Other Roadway	7	0	2	5
Parked Motor Vehicle	1290	1	128	1161
Railway Train	12	1	6	5
Pedalcyclist	156	2	152	2
Animal	465	0	17	448
Fixed Object	2475	37	938	1500
Other Object	147	0	31	116
Other	0	0	0	0
TOTALS:	**17850**	**126**	**5441**	**12283**

CONTRIBUTING CIRCUMSTANCES

Contributing Circumstances	All Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes
Speed too Fast	803	6	281	516
Failed to Yield Right of Way	2018	10	645	1363
Passed Stop Sign	840	8	315	517
Disregard Traffic Signal	1048	5	441	602
Drove Left of Center	281	3	84	194
Improper Overtaking	365	0	72	293
Followed too Closely	1376	0	356	1020
Made Improper Turn	657	0	125	532
Had Been Drinking	1168	38	598	532
Other Improper Driving	1346	0	426	920
Mechanical Defect	284	0	87	197
Inattention	**2967**	**1**	**905**	**2061**
Other	4697	55	1106	3536
TOTALS:	**17850**	**126**	**5441**	**12283**

ROAD CONDITIONS

Road Surface Condition	All Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes
Dry	**12619**	**107**	**3898**	**8614**
Wet	4761	18	1425	3318
Snowy/Icy	464	1	117	346
Other	6	0	1	5
TOTALS:	**17850**	**126**	**5441**	**12283**

LIGHT CONDITIONS

Light Condition	All Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes
Daylight	**11543**	**54**	**3429**	**8060**
Dawn/Dusk	800	6	243	551
Darkness	5502	66	1769	3667
Not Stated	5	0	0	5
TOTALS:	**17850**	**126**	**5441**	**12283**

TYPE OF VEHICLE

Type of Vehicle	All Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes
Passenger Car	**25661**	**138**	**7831**	**17692**
Passenger Car & Trailer	3	0	1	2
Truck or Truck Tractor	544	5	146	393
Truck Tractor & Semi	595	9	184	402
Other Truck Combination	38	1	11	26
Farm Tractor &/or Farm Equipment	34	1	8	25
Bus	88	0	26	62
School Bus	143	0	39	104
Motorcycle	266	9	219	38
Other	5896	35	1645	4216
Not Stated	564	2	41	521
TOTALS:	**33832**	**200**	**10151**	**23481**

AGE OF DRIVER

Age of Driver	All Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes
15 & Under	43	1	15	27
16	840	2	259	579
17	990	4	321	665
18 - 19	2200	9	693	1498
20 - 24	4936	30	1602	3304
25 - 34	8388	54	2668	5666
35 - 44	5437	44	1689	3704
45 - 54	3309	19	1027	2263
55 - 64	2281	7	714	1560
65 & Older	2185	26	690	1469
Not Stated	1572	2	212	1358
TOTALS:	**32181**	**198**	**9890**	**22093**

SEX OF DRIVER

Sex of Driver	All Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes
Male	**18801**	**155**	**5699**	**12947**
Female	11912	41	4006	7865
Not Stated	1468	2	185	1281
TOTALS:	**32181**	**198**	**9890**	**22093**

RESIDENCE OF DRIVER

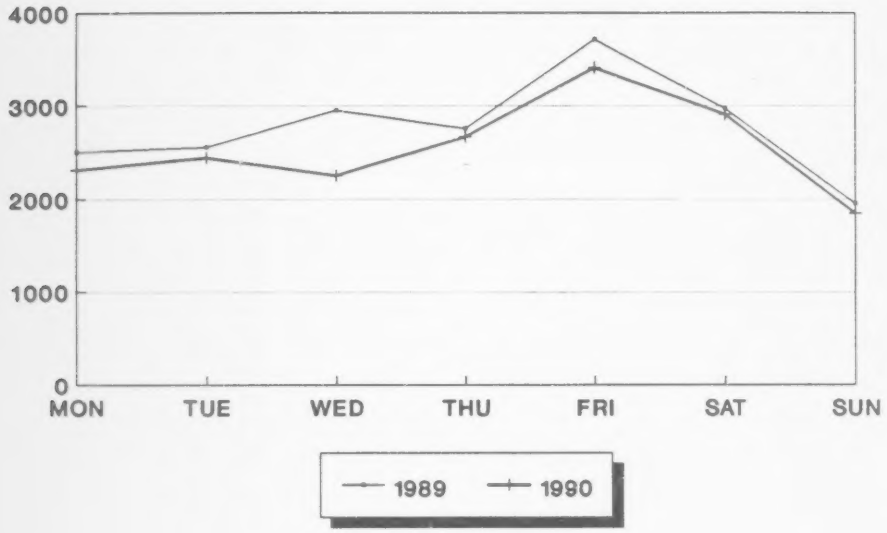
Residence	All Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes
Local Residence	24433	162	7835	16436
Non-Residence of Delaware	6226	34	1852	4340
Not Stated	1522	2	203	1317
TOTALS:	**32181**	**198**	**9890**	**22093**

DAY OF WEEK

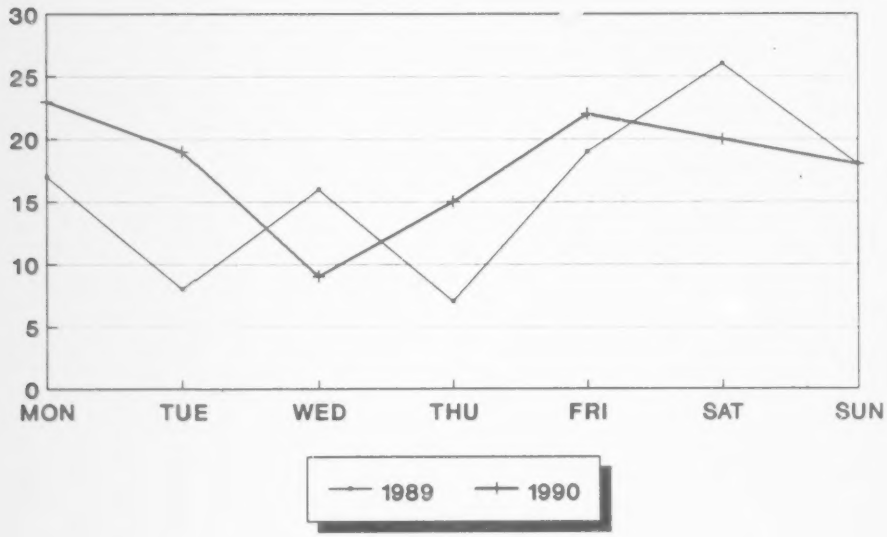
ALL CRASHES and FATAL CRASHES

DAY OF WEEK	ALL CRASHES 1990	ALL CRASHES 1989	FATAL CRASHES 1990	FATAL CRASHES 1989
Monday	2318	2508	23	17
Tuesday	2446	2557	19	8
Wednesday	2254	2952	9	16
Thursday	2668	2754	15	7
Friday	**3409**	**3717**	**22**	**19**
Saturday	**2908**	**2972**	**20**	**26**
Sunday	1847	1950	18	18
TOTALS:	**17850**	**19410**	**126**	**111**

ALL CRASHES
by Day of Week



FATAL CRASHES
by Day of Week

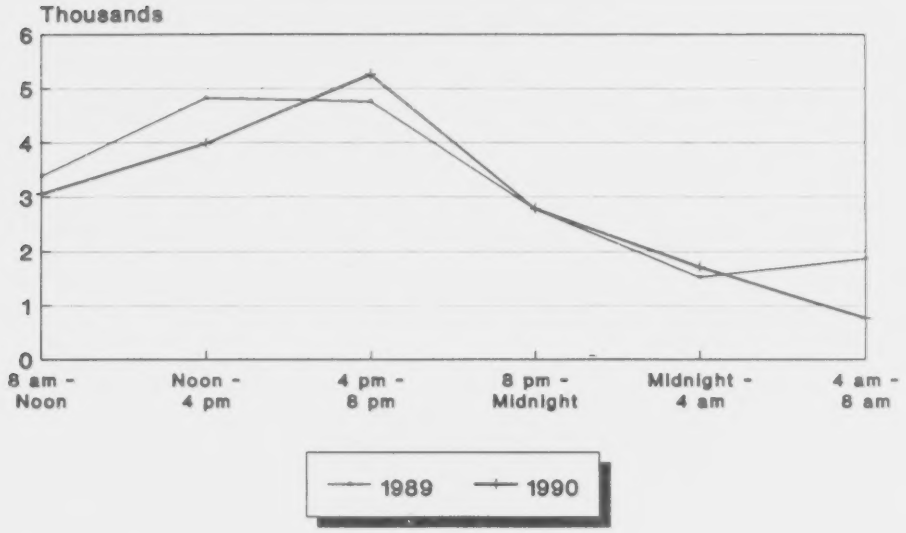


TIME OF DAY

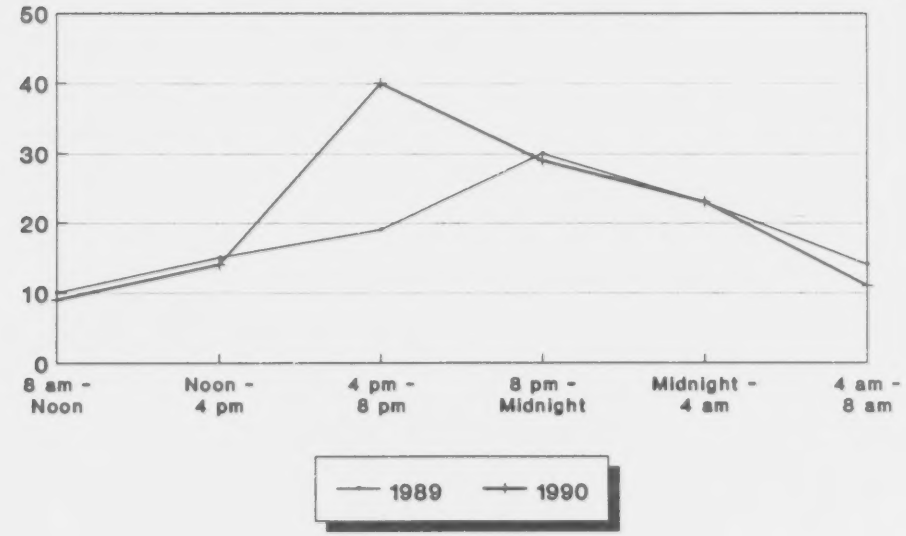
ALL CRASHES and FATAL CRASHES

TIME OF DAY	ALL CRASHES		FATAL CRASHES	
	1990	1989	1990	1989
8 am - Noon	3058	3384	9	10
Noon - 4 pm	3984	4825	14	15
4 pm - 8 pm	**5258**	4756	**40**	19
8 pm - Midnight	2782	2770	29	30
Midnight - 4 am	1707	1520	23	23
4 am - 8 am	768	1856	11	14
Not Stated	293	299	0	0
TOTALS:	**17850**	**19410**	**126**	**111**

ALL CRASHES
by Time of Day



FATAL CRASHES
by Time of Day



CONTRIBUTING POLICE AGENCIES

Police Agency	All Crashes		Fatal Crashes		Personal Injury Crashes		Property Damage Crashes	
	90	89	90	89	90	89	90	89
Delaware State Police	9875	10457	100	83	3158	3358	6617	7016
Bethany Beach	30	5	0	0	8	3	22	2
Bethel	0	0	0	0	0	0	0	0
Blades	0	0	0	0	0	0	0	0
Bridgeville	18	33	0	0	4	9	14	24
Camden-Wyoming	44	45	0	0	11	10	33	35
Clayton	0	2	0	0	0	0	0	2
Dagsboro	1	3	0	1	1	1	0	1
DE River & Bay Authority	115	120	0	1	28	24	87	95
Delmar	11	9	0	0	0	1	11	8
Dewey Beach	17	20	0	0	5	6	12	14
Dover	1388	1450	4	2	446	435	938	1013
Elsmere	144	102	0	0	50	39	94	63
Frankford	1	4	0	0	0	1	1	3
Frederica	1	2	0	0	0	0	1	2
Georgetown	111	51	2	0	33	10	76	41
Greenwood	2	1	0	0	0	0	2	1
Harrington	20	39	0	0	7	7	13	32

CONTRIBUTING POLICE AGENCIES (cont.)

Police Agency	All Crashes		Fatal Crashes		Personal Injury Crashes		Property Damage Crashes	
	90	89	90	89	90	89	90	89
Laurel	52	73	0	1	8	16	44	56
Lewes	16	27	1	0	1	8	14	19
Milford	192	210	1	3	69	68	122	139
Millsboro	8	26	0	1	4	6	4	19
Milton	2	1	1	0	0	0	1	1
Newark	855	950	2	4	263	318	590	628
New Castle City	61	57	0	0	22	13	39	44
New Castle Co.	1875	2433	11	8	568	664	1296	1761
Newport	65	48	0	1	23	20	42	27
Ocean View	2	6	0	0	1	2	1	4
Rehoboth Beach	87	103	0	0	15	23	72	80
South Bethany Beach	3	3	0	0	1	0	2	3
Seaford	211	182	2	0	62	43	147	139
Smyrna	59	81	0	1	20	32	39	48
Wilmington	2581	2862	2	5	632	747	1947	2110
Other	3	4	0	0	1	3	2	1
TOTALS:	**17850**	**19410**	**111**	**126**	**5441**	**5867**	**12283**	**13432**

MOTORCYCLE CRASHES

In 1990:

- There were 260 traffic crashes which involved a motorcycle.
- 3.5% of the crashes were fatal crashes.
- 81.9% of the crashes were personal injury crashes.
- 14.6% of the crashes were property damage crashes
- Of the 10 motorcyclists killed in 1990, 4 of them were wearing helmets.
- Of the 9 motorcycle operators killed, 6 had a positive BAC.
- The death rate for motorcyclists was 12.7 per 10,000 registrations - compared to a death rate of 2.50 for all vehicles registered.

MOTORCYCLE CRASHES

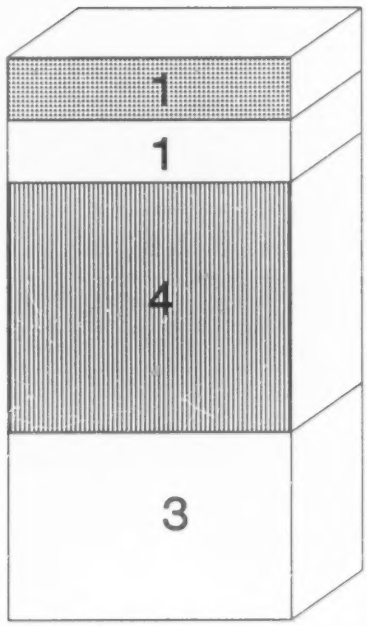
1978 - 1990

Year	Reg. Motor-cycles	All Crashes	Fatal Crashes	Personal Injury Crashes	Property Damage Crashes	Motor-cyclists Killed	Number of Victims wearing Helmets
1978	8,550	292	8	253	31	8	3
1979	11,494	384	12	317	55	13	3
1980	8,941	404	16	337	51	16	3
1981	9,451	354	7	290	57	8	2
1982	9,363	375	17	290	68	18	7
1983	8,830	331	10	276	45	10	2
1984	8,625	295	7	228	60	7	2
1985	8,360	333	17	270	46	19	6
1986	8,124	310	6	257	47	6	1
1987	7,455	315	14	253	48	14	3
1988	7,768	321	10	245	66	11	5
1989	7,835	274	4	228	42	4	0
1990	**7,904**	**260**	**9**	**213**	**38**	**10**	**4**

MOTORCYCLE CRASHES

BAC Information of Motorcyclists Killed

Out of the 9 Motorcycle Operators Killed:



67% of the motorcycle operators killed had a positive BAC

PEDESTRIAN CRASHES

In 1990:

- There were 269 traffic crashes which involved a pedestrian.
- 8% of the crashes were fatal crashes.
- 92% of the crashes were personal injury crashes.
- There were no property damage crashes involving a pedestrian.
- Of the 22 pedestrians killed in 1990, 14 had a positive BAC.

PEDESTRIANS KILLED and INJURED

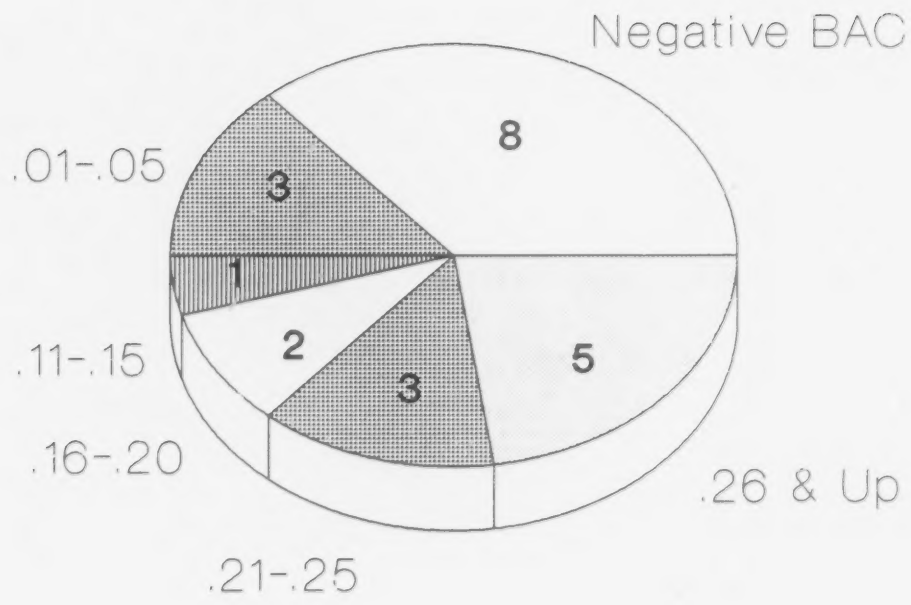
by AGE

1988 - 1990

Age of Pedestrian	1988 Killed	1988 Injured	1989 Killed	1989 Injured	1990 Killed	1990 Injured
0 - 4	0	21	0	26	0	25
5 - 9	1	79	1	67	0	48
10 - 14	0	34	0	34	2	32
15 - 19	2	28	2	32	0	27
20 - 24	2	36	3	26	2	26
25 - 34	9	40	2	47	4	40
35 - 44	5	31	4	16	6	22
45 - 54	2	18	2	9	2	6
55 - 64	4	9	3	9	3	8
65 - 74	2	5	1	10	1	8
75 & Older	1	11	1	5	2	2
Unknown	0	2	0	4	0	2
TOTALS:	**28**	**314**	**19**	**285**	**22**	**246**

PEDESTRIAN CRASHES
BAC Information of Pedestrians Killed

Out of the 22
Pedestrians killed:



64% of the pedestrians killed had a positive BAC

BICYCLE CRASHES

In 1990:

- There were 156 traffic crashes which involved a bicyclist.
- 1% of the crashes were fatal crashes.
- 97% of the crashes were personal injury crashes.
- 1% of the crashes were property damage crashes.
- Of the 2 fatal crashes, 1 was alcohol related.
- Children under 15 years of age accounted for 43% of the bicyclist's injuries.

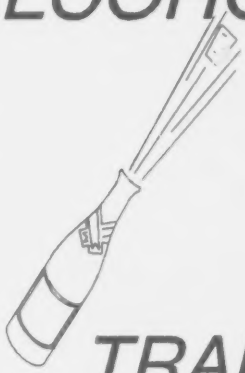
BICYCLISTS KILLED and INJURED

by AGE

1988 - 1990

Age of Bicyclist	1988 Killed	1988 Injured	1989 Killed	1989 Injured	1990 Killed	1990 Injured
0 - 4	0	6	0	4	0	1
5 - 9	0	40	0	39	0	28
10 - 14	1	58	0	48	0	34
15 - 19	2	27	0	25	1	21
20 - 24	0	20	0	17	0	18
25 - 34	0	14	1	16	1	26
35 - 44	0	9	0	5	0	13
45 - 54	0	2	1	0	0	3
55 - 64	0	2	0	0	0	2
65 - 74	0	3	0	2	0	0
75 & Older	0	0	0	0	0	0
Unknown	0	1	0	0	0	2
TOTALS:	**3**	**182**	**2**	**156**	**2**	**148**

ALCOHOL INVOLVEMENT



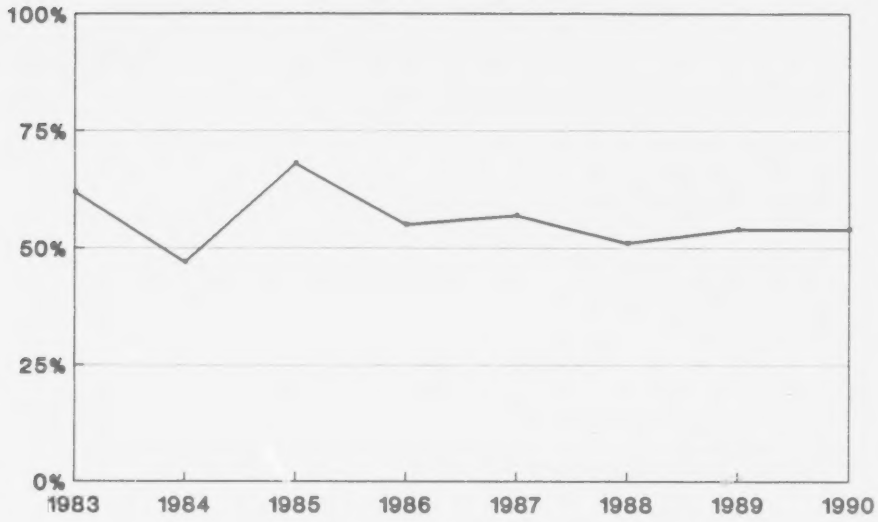
in

TRAFFIC CRASHES

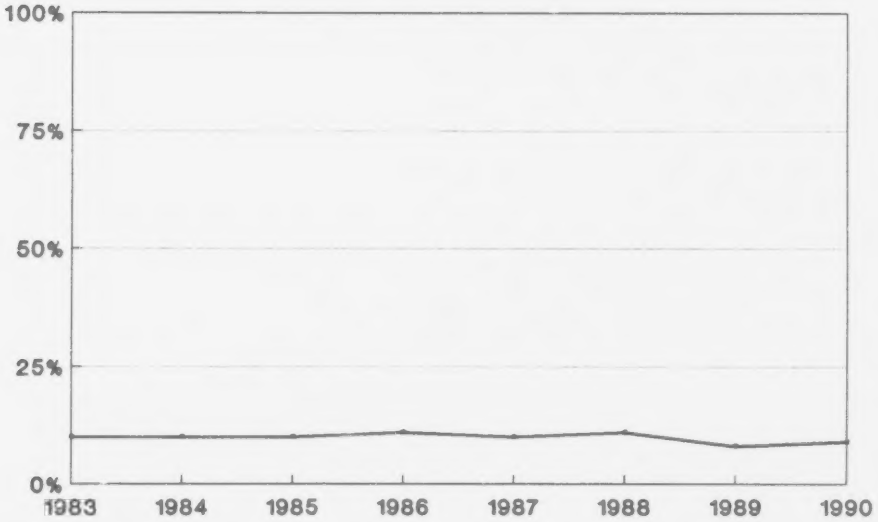
ALCOHOL INVOLVEMENT
in
TRAFFIC CRASHES
1986 - 1990

	TOTAL CRASHES	ALCOHOL RELATED CRASHES	% OF TOTAL
FATALS			
1986	121	67	55%
1987	132	75	57%
1988	147	75	51%
1989	111	59	53%
1990	126	68	54%
PERSONAL INJURY			
1986	5928	1061	18%
1987	5813	974	17%
1988	5878	990	17%
1989	5867	772	13%
1990	5441	841	15%
PROPERTY DAMAGE			
1986	13827	1112	8%
1987	14394	1060	7%
1988	13765	1109	8%
1989	13432	732	5%
1990	12283	778	6%
ALL CRASHES			
1986	19876	2240	11%
1987	20339	2109	10%
1988	19790	2174	11%
1989	19410	1563	8%
1990	17850	1687	9%

Percentage of Fatal Crashes that were Alcohol Related



Percentage of Total Crashes that were Alcohol Related



ALCOHOL INVOLVEMENT

in

TRAFFIC FATALITIES & INJURIES

1986 - 1990

	TOTAL FATALITIES	ALCOHOL RELATED FATALITIES	% OF TOTAL
1986	138	80	58%
1987	147	83	56%
1988	165	85	52%
1989	119	65	55%
1990	143	81	57%

	TOTAL INJURIES	ALCOHOL RELATED INJURIES	% OF TOTAL
1986	9335	1754	19%
1987	8915	1525	17%
1988	9245	1597	17%
1989	9246	1240	13%
1990	8693	1383	16%

TRAFFIC CRASH FATALITIES
by
AGE and SEX
1990

AGE	MALE	FEMALE	TOTAL
0 - 4	1	2	3
5 - 9	0	2	2
10 - 14	1	3	4
15 - 19	8	5	13
20 - 24	14	5	19
25 - 34	20	7	27
35 - 44	16	8	24
45 - 54	6	4	10
55 - 64	4	6	10
65 - 74	11	3	14
75 & Older	9	8	17
TOTALS:	**90**	**53**	**143**

ALCOHOL RELATED

TRAFFIC CRASH FATALITIES

by

AGE and SEX

1990

AGE	MALE	FEMALE	TOTAL
0 - 4	1	2	3
5 - 9	0	2	2
10 - 14	1	0	1
15 - 19	6	2	8
20 - 24	10	3	13
25 - 34	17	7	24
35 - 44	10	5	15
45 - 54	5	0	5
55 - 64	2	1	3
65 - 74	1	0	1
75 & Older	2	3	5
Unknown	1	0	1
TOTALS:	**56**	**25**	**81**

DRIVERS KILLED
by
AGE and SEX

AGE	MALE	FEMALE	TOTAL
15	0	1	1
16	0	0	0
17	0	1	1
18	1	0	1
19	3	0	3
20	4	1	5
21 - 25	11	1	12
26 - 30	4	1	5
31 - 35	6	2	8
36 - 45	10	4	14
46 - 55	6	0	6
56 - 65	3	3	6
66 - 75	8	4	12
76 & Older	5	3	8
TOTALS:	**61**	**21**	**82**

DRINKING DRIVERS KILLED

by

AGE and SEX

AGE	MALE	FEMALE	TOTAL
16	0	0	0
17	0	0	0
18	1	0	1
19	2	0	2
20	3	0	3
21 - 25	7	0	7
26 - 30	2	1	3
31 - 35	3	2	5
36 - 45	6	1	7
46 - 55	2	0	2
56 - 65	0	0	0
66 - 75	0	0	0
76 & Older	1	0	1
TOTALS:	**27**	**4**	**31**

BLOOD ALCOHOL CONTENT DATA
on
DRIVERS KILLED

Number of Drivers Killed: 82

Number of BAC's Obtained: 82

Percent of BAC's Obtained: 100%

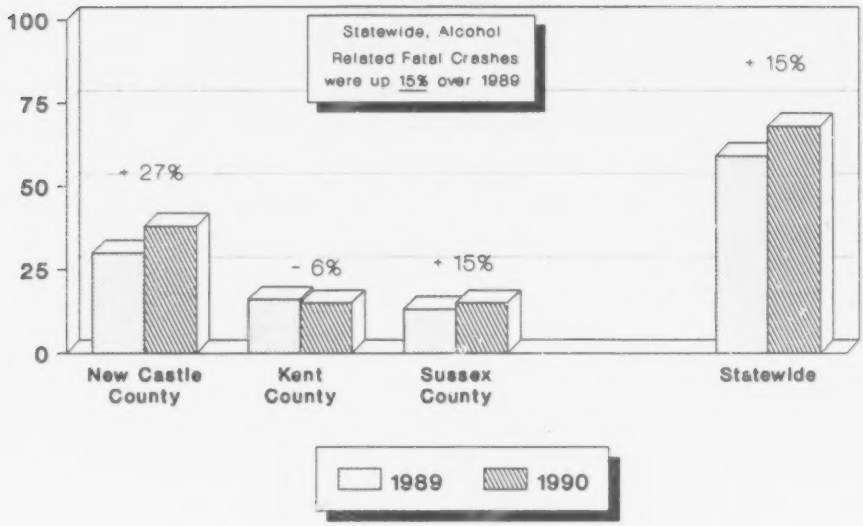
A breakdown of the BAC's:

Negative BAC	51
.01 - .04	1
.05 - .09	1
.10 - .14	7
.15 - .19	9
.20 - .24	12
.25 & Higher	1

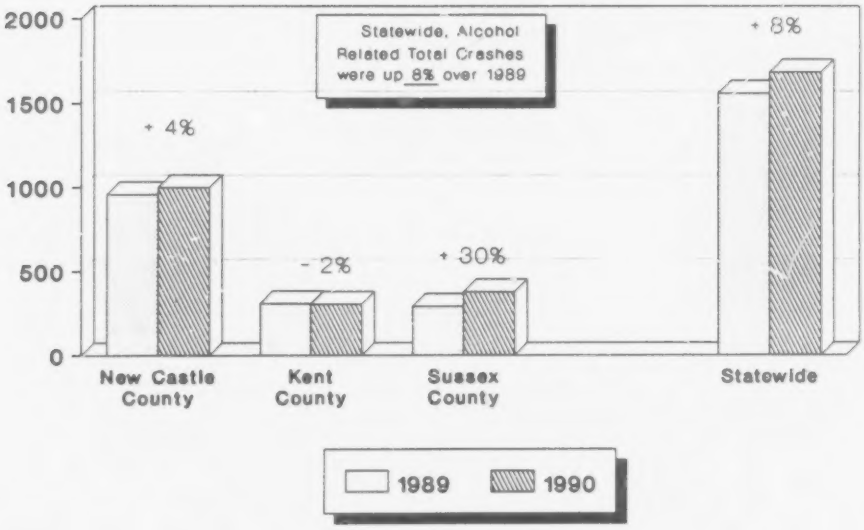
ALCOHOL RELATED CRASH COMPARISON

	1990	1989	% CHANGE
NEW CASTLE COUNTY			
Fatal Crashes	38	30	↓ 27%
Personal Injury Crashes	497	486	↓ 2%
Property Damage Crashes	466	443	↓ 5%
Total Crashes	1001	959	↓ 4%
Fatalities	46	34	↓ 35%
Injuries	846	800	↓ 6%
KENT COUNTY			
Fatal Crashes	15	16	↑ 6%
Personal Injury Crashes	151	148	↓ 2%
Property Damage Crashes	140	147	↑ 5%
Total Crashes	306	311	↑ 2%
Fatalities	18	17	↓ 6%
Injuries	244	242	↓ 1%
SUSSEX COUNTY			
Fatal Crashes	15	13	↓ 15%
Personal Injury Crashes	193	138	↓ 40%
Property Damage Crashes	172	142	↓ 21%
Total Crashes	380	293	↓ 30%
Fatalities	17	14	↓ 21%
Injuries	294	199	↓ 48%
STATEWIDE			
Fatal Crashes	68	59	↓ 15%
Personal Injury Crashes	841	772	↓ 9%
Property Damage Crashes	778	732	↓ 6%
Total Crashes	1687	1563	↓ 8%
Fatalities	81	65	↓ 25%
Injuries	1384	1241	↓ 12%

ALCOHOL RELATED FATAL CRASHES



ALCOHOL RELATED TOTAL CRASHES



ALCOHOL RELATED

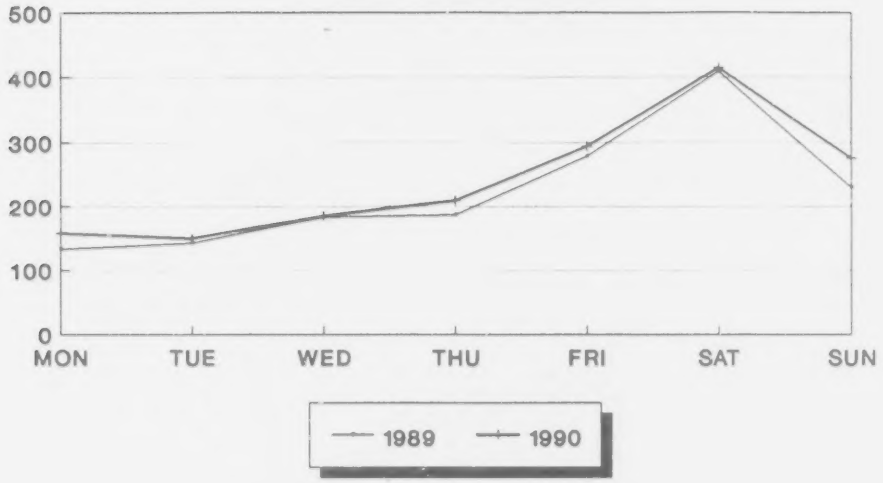
ALL CRASHES and FATAL CRASHES

by

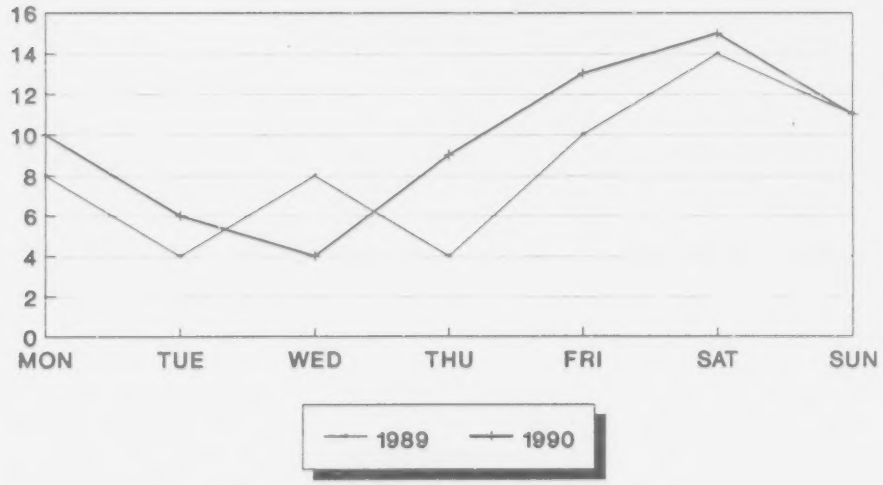
DAY OF WEEK

DAY OF WEEK	ALL CRASHES 1990	ALL CRASHES 1989	FATAL CRASHES 1990	FATAL CRASHES 1989
Monday	158	133	10	8
Tuesday	150	143	6	4
Wednesday	185	183	4	8
Thursday	209	187	9	4
Friday	294	278	13	10
Saturday	**415**	**409**	**15**	**14**
Sunday	276	230	11	11
TOTALS:	**1687**	**1563**	**68**	**59**

ALCOHOL RELATED
TOTAL CRASHES
by Day of Week



ALCOHOL RELATED
FATAL CRASHES
by Day of Week



ALCOHOL RELATED

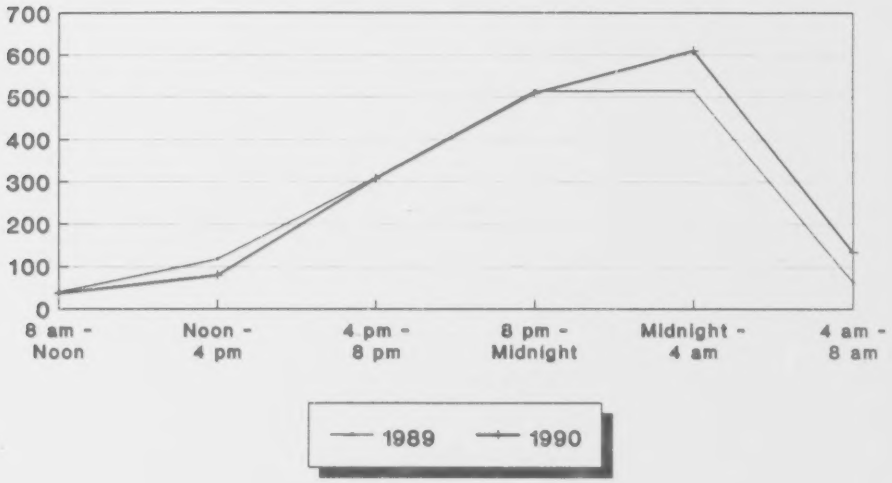
ALL CRASHES and FATAL CRASHES

by

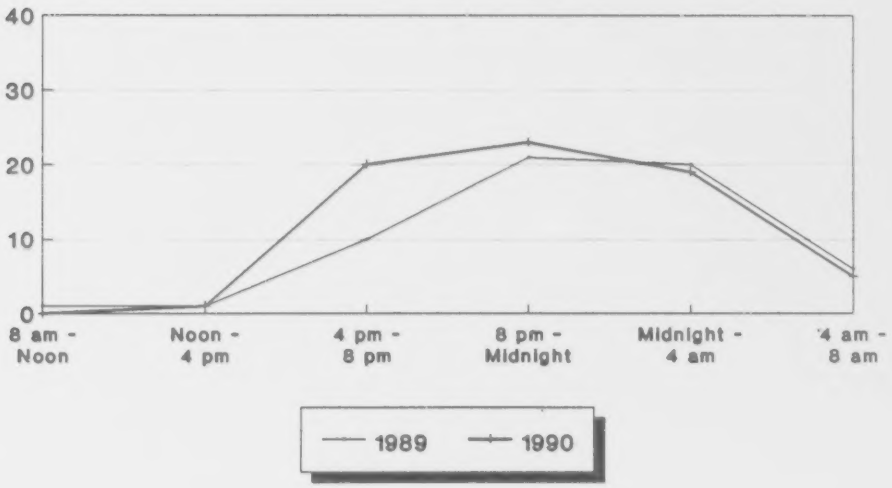
TIME OF DAY

TIME OF DAY	ALL CRASHES 1990	ALL CRASHES 1989	FATAL CRASHES 1990	FATAL CRASHES 1989
8 am - Noon	36	39	0	1
Noon - 4 pm	79	117	1	1
4 pm - 8 pm	307	309	20	10
8 pm - Midnight	**509**	**514**	**23**	**21**
Midnight - 4 am	**610**	**515**	**19**	**20**
4 am - 8 am	134	62	5	6
Not Stated	12	7	0	0
TOTALS:	**1687**	**1563**	**68**	**59**

ALCOHOL RELATED
TOTAL CRASHES
by Time of Day



ALCOHOL RELATED
FATAL CRASHES
by Time of Day



1990

DELAWARE STATE POLICE

TRAFFIC ENFORCEMENT SUMMARY

CRASH INVESTIGATION

BY

DELAWARE STATE POLICE

ALL CRASHES	1986	1987	1988	1989	1990	% CHANGE OVER 1989
TOTAL CRASHES	10,296	10,672	10,612	10,457	9,875	6% ↓
FATAL	97	97	118	83	100	↑20%
PERSONAL INJURY	3,440	3,393	3,395	3,358	3,158	6% ↓
PROPERTY DAMAGE	6,759	7,182	7,099	7,016	6,617	6% ↓
FATALITIES	111	106	132	88	113	↑28%
INJURIES	5,595	5,450	5,500	5,543	5,282	5% ↓

ALCOHOL RELATED	1986	1987	1988	1989	1990	% CHANGE OVER 1989
TOTAL CRASHES	1,516	1,364	1,350	1,038	1,130	↑ 9%
FATAL	53	58	62	49	58	↑18%
PERSONAL INJURY	761	672	629	520	584	↑12%
PROPERTY DAMAGE	702	634	659	469	488	↑ 4%
FATALITIES	63	64	69	53	67	↑26%
INJURIES	1,289	1,084	1,001	837	956	↑14%

INSURANCE REQUESTS	1986	1987	1988	1989	1990	% CHANGE OVER 1989
REQUESTS PROCESSED	11,240	13,637	14,812	14,968	16,084	↑ 7%

TRAFFIC ENFORCEMENT

BY

DELAWARE STATE POLICE

TRAFFIC ARRESTS	1986	1987	1988	1989	1990	% CHANGE OVER 1989
TOTAL ARRESTS	89954	91398	94796	102388	112744	↘ 10%
DUI ARRESTS	3499	3612	3711	4134	4566	↘ 10%
SPEED ARRESTS	50567	51466	48630	53492	59556	↘ 11%
RADAR ARRESTS	48387	49017	44319	49818	56369	↘ 13%
55 MPH ARRESTS	27619	26853	23932	27538	29803	↘ 8%
DMV ARRESTS	68067	69127	68032	75250	81453	↘ 8%

TRUCK ENFORCEMENT	1986	1987	1988	1989	1990	% CHANGE OVER 1989
# WEIGHED	220884	91622	42978	118378	184037	↘ 55%
WEIGHT ARRESTS	403	470	421	612	704	↘ 15%
MOTOR FUEL TAX ARRESTS	919	1322	1081	625	515	18% ↘

DELAWARE STATE POLICE

CRASH INVESTIGATION

by TROOP and by COUNTY

TROOP	ALL CRASHES		FATAL CRASHES		PERSONAL INJURY CRASHES		PROPERTY DAMAGE CRASHES	
	90	89	90	89	90	89	90	89
1	1612	1592	9	5	418	433	1185	1154
3	1230	1464	24	21	422	482	784	961
5	1064	1135	16	12	354	379	694	744
6	4597	4546	36	28	1432	1457	3129	3061
7	1045	1096	8	13	420	398	617	685
9	327	624	7	4	112	209	208	411
TOTALS:	**9875**	**10457**	**100**	**83**	**3158**	**3358**	**6617**	**7016**

COUNTY	ALL CRASHES		FATAL CRASHES		PERSONAL INJURY CRASHES		PROPERTY DAMAGE CRASHES	
	90	89	90	89	90	89	90	89
NEW CASTLE COUNTY	6536	6762	52	37	1962	2099	4522	4626
KENT COUNTY	1230	1464	24	21	422	482	784	961
SUSSEX COUNTY	2109	2231	24	25	774	777	1311	1429
TOTALS:	**9875**	**10457**	**100**	**83**	**3158**	**3358**	**6617**	**7016**

DELAWARE STATE POLICE

ALCOHOL RELATED CRASH INVESTIGATION

by TROOP and by COUNTY

TROOP	ALL CRASHES		FATAL CRASHES		PERSONAL INJURY CRASHES		PROPERTY DAMAGE CRASHES	
	90	89	90	89	90	89	90	89
1	124	118	6	2	55	60	63	56
3	218	228	13	15	109	102	96	111
5	168	115	8	7	82	57	78	51
6	405	360	20	21	214	189	171	150
7	166	141	5	4	97	71	64	66
9	49	76	6	0	27	41	16	35
TOTALS:	**1130**	**1038**	**58**	**49**	**584**	**520**	**488**	**469**

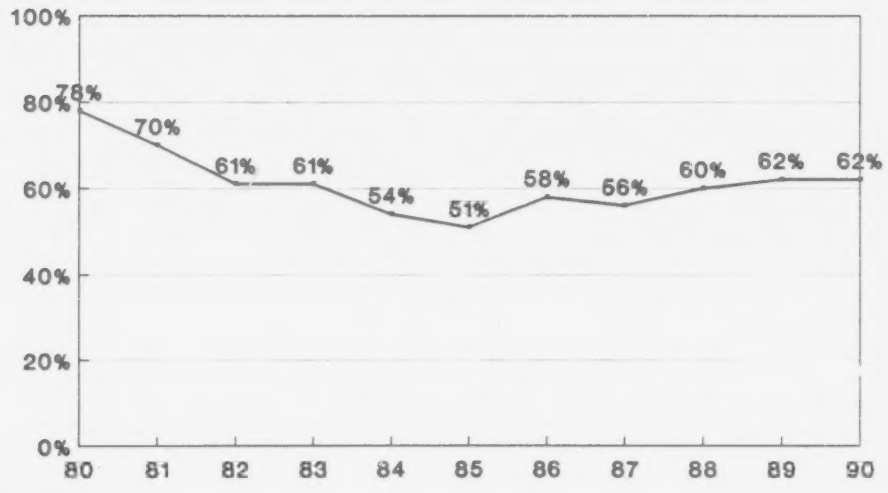
COUNTY	ALL CRASHES		FATAL CRASHES		PERSONAL INJURY CRASHES		PROPERTY DAMAGE CRASHES	
	90	89	90	89	90	89	90	89
NEW CASTLE COUNTY	578	554	32	23	296	290	250	241
KENT COUNTY	218	228	13	15	109	102	96	111
SUSSEX COUNTY	334	256	13	11	179	128	142	117
TOTALS:	**1130**	**1038**	**58**	**49**	**584**	**520**	**488**	**469**

DUI Arrests

Statewide & Delaware State Police

Year	Statewide	State Police
1980	2672	2087
1981	4370	3047
1982	6055	3676
1983	6080	3723
1984	6245	3355
1985	6718	3435
1986	6029	3499
1987	6448	3612
1988	6745	3711
1989	6659	4134
1990	7383	4566

Percent of Statewide Arrests made by Delaware State Police



1980-1990

BLOOD ALCOHOL CONTENT DATA
DRIVERS ARRESTED FOR DUI

	1990	1989	1988
# of DUI Arrests	4566	4134	3711
# of BAC's Obtained	3935	3457	2973
# of BAC's Not Obtained	228	164	105
Implied Consent Refusals	403	513	633

DRIVERS ARRESTED FOR DUI
by AGE and SEX

	MALES	FEMALES	TOTAL
15 & Under	1	0	1
16	9	2	11
17	24	3	27
18	52	7	59
19 - 20	157	34	191
21 - 24	553	114	667
25 - 34	1690	339	2029
35 - 44	822	132	954
45 - 54	342	32	374
55 - 64	156	11	167
65 & Older	54	3	57
Unknown	23	6	29
TOTALS:	**3883**	**683**	**4566**

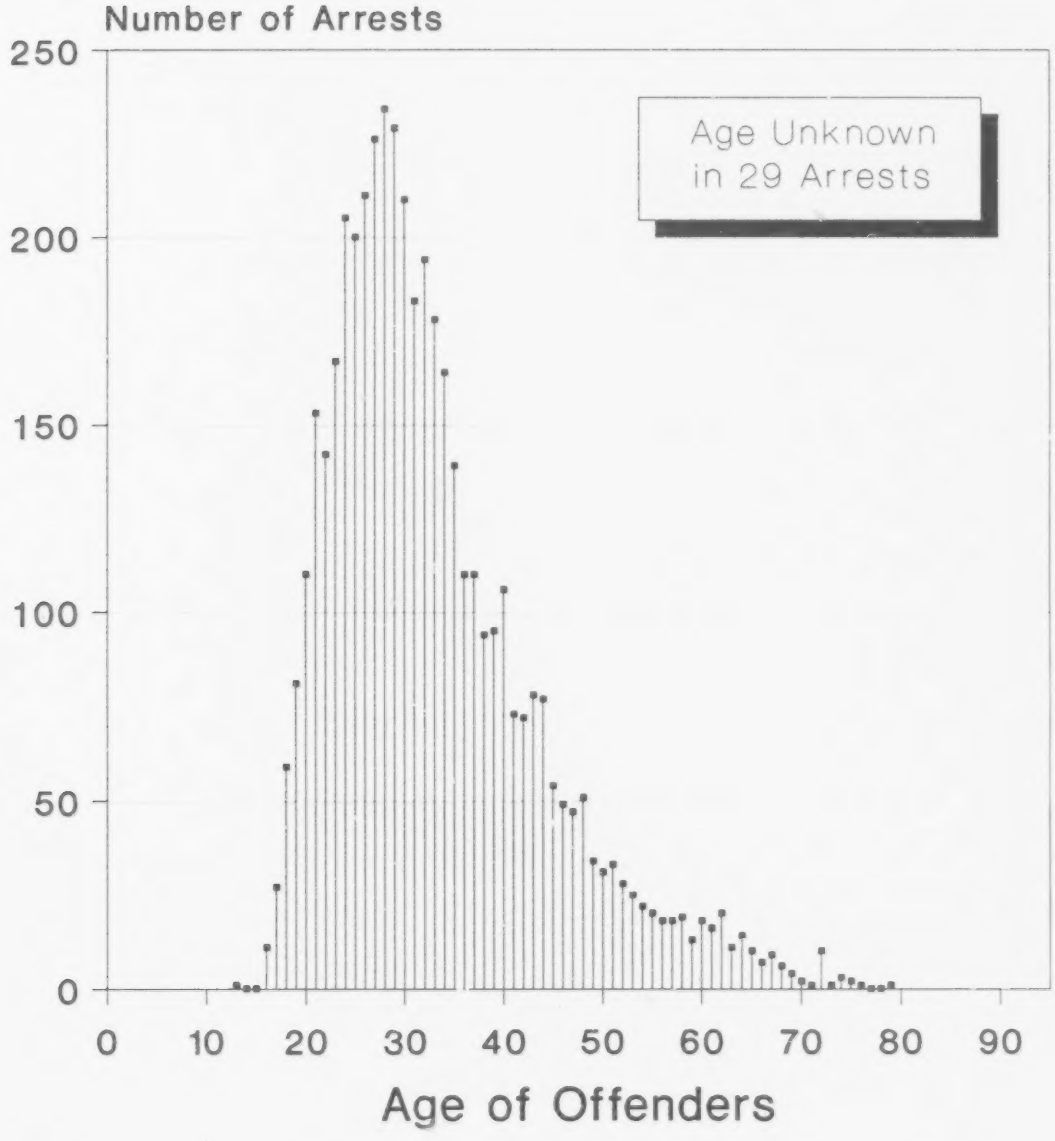
BLOOD ALCOHOL CONTENT DATA
Drivers Arrested for DUI

1990

Total DUI Arrests:
4566

Breakdown of the BAC's Obtained

Person Arrested for DUI
by Age



1990